

ABSTRACT OF THE INVENTION

A deactivation valve lifter includes a lifter body. The body defines at least one annular pin chamber therein. The lifter body has a first end configured for engaging a cam of an engine. A pin housing includes a pin housing wall and pin housing
5 bottom. The pin housing wall includes an outer surface. The pin housing bottom defines a radially directed pin bore. The pin housing is concentrically disposed within the lifter body such that the outer surface of the pin housing wall is adjacent to at least a portion of an inner wall of the lifter body. A deactivation pin assembly is disposed within the pin bore and includes pin members. A portion of each pin
10 member is disposed within the annular pin chamber to thereby couple the lifter body to the pin housing. An external lost motion spring is coupled to the body and pin housing.